TEJUS
CONSULTANTS

Test report on Compressive strength of concrete cubes

Project	Construction of Fencing to Swimming Pool at Allalasandra Lake premises in ward No. 04 Yelahanka New Town.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. D K Nagaraja, Bangalore.
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	23/02/2018	23/03/2018	28 days	8.255	22500	463	20.58	20.68
2	23/02/2018	23/03/2018	28 days	8.264	22500	468	20.80	
3	23/02/2018	23/03/2018	28 days	8.274	22500	465	20.67	

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Contractor	Sri. D K Nagaraja, Bangalore.
Grade of concrete:	M20
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Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	23/02/2018	02/03/18	7 days	8.168	22500	306	13.60	13.73
2	23/02/2018	02/03/18	7 days	8.170	22500	310	13.78	
3	23/02/2018	02/03/18	7 days	8.175	22500	311	13.82	

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Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. D K Nagaraja, Bangalore.
Grade of concrete:	M20
Size of cube:	150x150x150 mm
Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	23/02/2018	23/03/2018	28 days	8.262	22500	466	20.71	20.80
2	23/02/2018	23/03/2018	28 days	8.278	22500	468	20.80	
3	23/02/2018	23/03/2018	28 days	8.282	22500	470	20.89	

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Test Report on Cement

Project	Construction of Fencing to Swimming Pool at Allalasandra Lake premises in ward No. 04 Yelahanka New Town.
Client	Bruhat Bangalore Mahanagar Palike
Consultant	TEJUS CONSULTANTS
Contractor	Sri. D K Nagaraja, Bangalore.
Sample ID	Cement
Date of Sample Tested	26/02/2018
Sample Supplied By	Agency

Sl.No.	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 12269-1987
1	a) Initial Setting Time	IS-4031 (Part-5)	36 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part-5)	342 Minutes	Not More than 600 Minutes
2	Soundness	IS-4031 (Part-3) By the Le-Chatelier method	3mm	Not More than 10 mm
3	Standard Consistency	IS-4031 (Part-4)	27.00%	25 % to 35

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TEST REPORT	
Clients	BRUHAT BENGALORE MAHANAGARA PALIKE
Project	Construction of Fencing to Swimming Pool at Allalasandra Lake premises in ward No. 04 Yelahanka New Town.
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore
Contractor	Sri. D K Nagaraja, Bangalore.

SPECIFIC GRAVITY AND WATER ABSORPTION

FINE AGGREGATE (IS-2386-PART-3)

Type of Material	Fine aggregate (River Sand/ M sand)	**Proposed Use**	concrete
Location/Source	At Site/Plant	**Date of Sampling**	26/02/2018
Period of Soaking	24 hours	**Date of Testing**	26/02/2018

Sl. No.	Test Property	TRIAL - 1	TRIAL - 2	TRIAL - 3	
A	Weight of sturated surface dry sample gm.	635	680	660	
B	Weight of oven - dry sample gm.	628	668	652	
C	Weight of Pycnometer Filled with water gm	1275	1275	1275	
D	Weight of Pycnometer + sample + water gm	1673	1703	1690	
E	Bulk specific gravity $\frac{B}{(C+A-D)}$	2.650	2.651	2.661	**2.654**
G	Absorption (%) $\frac{(A-B)*100}{B}$	1.115	1.796	1.227	**1.379**

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike
Project	Construction of Fencing to Swimming Pool at Allalasandra Lake premises in ward No. 04 Yelahanka New Town.
Consultants	Tejus Consultants, Bangalore
Contractor	Sri. D K Nagaraja, Bangalore.

SIEVE ANALYSIS

Total Weight:	**3000** gms				
Type of Material	**Fine aggregate (River Sand/ M**		**Proposed Use**	concrete	
Sample Location	At Site/Plant		**Date of Sampli**	26/02/2018	
			Date of Testing	26/02/2018	
IS Sieve Size	**Weight Retained**	**Cum. Weight Retained**	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing (Zone-II)**
10.00 mm	0	0	0	100.00	100
4.75 mm	212	212	7.07	92.93	90 - 100
2.36 mm	302	514	17.13	82.87	75 - 100
1.18 mm	422	936	31.20	68.80	55 - 90
0.600 mm	482	1418	47.27	52.73	35 -59
0.300 mm	728	2146	71.53	28.47	8-30
0.150 mm	644	2790	93.00	7.00	0 - 10
Pan	210	3000			-

Remarks : Satisfactory / Not Satisfactory

Consultant's Representative

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TEST REPORT

Clients	Bruhat Bangalore Mahanagara Palike				
Project	Construction of Fencing to Swimming Pool at Allalasandra Lake premises in ward No. 04 Yelahanka New Town.				
Consultants	TEJUS CONSULTANTS Basaveshwar Nagar Bangalore				
Contractor	Sri. D K Nagaraja, Bangalore				
Total Weight:	10000	gms			

SIEVE ANALYSIS

Type of Material	20 mm down size		**Proposed Use**	PCC	
Sample Location	Plant/At site		**Date of Sampling**	26/02/2018	
			Date of Testing	26/02/2018	
IS Sieve Size	**Weight Retained**	**Cum. Weight Retained**	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing**
40.00 mm	0	0	0	100	100
20.00 mm	258	258	2.58	97.42	95 - 100
10.00 mm	4832	5090	50.90	49.10	25 - 55
4.75 mm	4311	9401	94.01	5.99	0 - 10
Pan	599	10000			

Remarks : Satisfactory / Not Satisfactory

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TEST REPORT		
Clients	Bruhat Bangalore Mahanagara Palike	
Project	Construction of Fencing to Swimming Pool at Allalasandra Lake premises in ward No. 04 Yelahanka New Town.	
Consultants	TEJUS CONSULTANTS	
Contractor	Sri. D K Nagaraja, Bangalore.	
Total Weight:	10000	gms

SIEVE ANALYSIS

Type of Material	**12.5 mm down size**		**Proposed Use**	PCC	
Sample Location	At Site/Plant		**Date of Sampling**	26/02/2018	
			Date of Testing	26/02/2018	
IS Sieve Size (in mm)	**Weight Retained**	**Cum. Weight Retained**	**Cum. % Retained**	**Cum. % Passing**	**Spec. Limit (%) Passing**
20.0	0	0	0	100	100
12.5	572	572	5.72	94.28	90-100
10.0	3232	3804	38.04	61.96	40-85
4.75	5622	9426	94.26	5.74	0-10
Pan	574	10000			

Remarks : Satisfactory / Not Satisfactory

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Contractor	Sri. D K Nagaraja, Bangalore.
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Reference IS code:	IS:516-1959

Sl.No.	Date of Casting	Date of testing	Age of Test	Weight of Cube	Area of Cube	Failure load	Compressive strength	Avg. Compressive strength
				Kg	mm^2	KN	N/mm^2	N/mm^2
1	26/02/2018	05/03/18	7 days	8.162	22500	304	13.51	13.63
2	26/02/2018	05/03/18	7 days	8.174	22500	307	13.64	
3	26/02/2018	05/03/18	7 days	8.178	22500	309	13.73	

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				Kg	mm^2	KN	N/mm^2	N/mm^2
1	26/02/2018	26/03/2018	28 days	8.260	22500	462	20.53	20.67
2	26/02/2018	26/03/2018	28 days	8.278	22500	466	20.71	
3	26/02/2018	26/03/2018	28 days	8.276	22500	467	20.76	

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